Name: Period: Date:

**Mitosis & Meiosis Worksheet KEY**

1. What is the original cell called?

**Parent cell**

2. What is the name given to the new cells created?

**Daughter cells**

3. Describe three ways that cells can reproduce.

**Splits/divides in 2**

**Exact duplicate of themselves**

**Sex cells produced**

4. Define mitosis.

**Cell division by which 2 new daughter cells are formed with the exact same number of chromosomes as the parent cell**

5. What is the difference between DNA and chromosomes?

**DNA – hereditary material found within the nucleus**

**Chromosomes – threadlike structures that DNA are made up of**

6. What is the centromere?

**Point where chromosomes are attached**

7. Why is interphase not considered a phase of mitosis?

**Time between the end of one mitosis and beginning of the next mitosis**

8. List the 4 phases in mitosis.

**Prophase, metaphase, anaphase, telophase**

9. What is a cell plate?

**Structure that forms between daughter cells of plant cells only**

10. Define meiosis.

**Cell division in which 2 gametes are formed**

11. Arrange the following in order from smallest to largest: DNA, genes, nucleus, cell, chromosomes.

**DNA, gene, chromosome, nucleus, cell**

12. Compare mitosis to meiosis.

**\*1 cell division 2 cell divisions**

**\*2 daughter cells 4 daughter cells**

**\*daughter cells have the same daughter cells have half the number**

**number of chromosomes as the of chromosomes as the parent cell**

**parent cell**